

## A B S T R A C T

5       An optical signal processor device (14) intended to  
be fitted to means (10) for optically transmitting an  
information-carrying signal (S) comprises means (20, 22)  
for suppressing backscattered signals (RS) in the optical  
transmission means (10), an optical propagation medium  
10       (16) intended to be connected in parallel with the  
optical transmission means (10), divertor means (18, 20)  
for diverting the backs-propagated signals (P, RS) in the  
optical transmission means (10) into the optical  
propagation medium (16), and signal discrimination means  
15       (22) connected to the optical propagation medium (16).

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